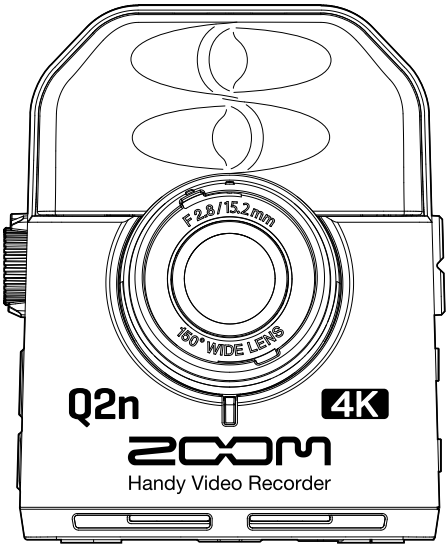
Q2n-4K

Handy Video Recorder



Quick Guide

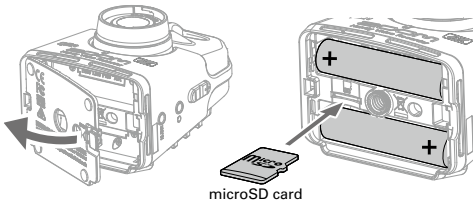
You must read the Usage and Safety Precautions before use.

The Operation Manual can be downloaded from the ZOOM website (https://www.zoom.jp/docs/q2n-4k). This page has files in PDF and ePub formats.
The PDF file format is suitable for printing on paper and reading on a computer.
The ePub format can be read with electronic document readers and is designed for reading on smartphones and tablets.

© 2018 ZOOM CORPORATION
Copying or reprinting this manual in part or in whole without permission is prohibited.
Product names, registered trademarks and company names in this document are the property of their respective companies.
You might need this manual in the future. Always keep it in a place where you can access it easily.
The contents of this manual and the specifications of the product could be changed without notice.

Preparations

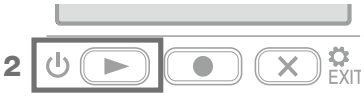
1. Remove the battery/SD card compartment cover and install batteries and a microSD card.



HINT

- The dedicated AC adapter (ZOOM AD-17) can also be connected to the USB port to use AC power.
- When connected to a computer, power can be supplied by USB.

2. Press ⏻ (►) to turn the power on.



HINT

Press and hold ⏻ (►) to turn the power off.

3. Set the language shown.

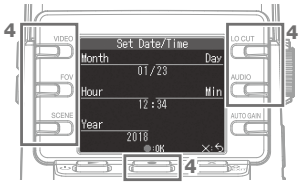
Select the language: Press ❮ or ❯

Confirm: Press (●)

4. Set the date and time.

Change values: Press corresponding buttons

Confirm: Press (●)



HINT

Language display and date and time settings can be changed later on the Setting Screen. From the Recording Screen, press (✕) EXIT to open the Setting Screen.

NOTE

- Set the Battery Type on the Setting Screen to the type of batteries installed so that the remaining battery power can be shown correctly.
- After purchasing a new microSD card, always format it using the **Q2n-4K** to maximize performance. Select "SD Format" on the Setting Screen to format a microSD card.

Recording

Using the Recording Screen

The Recording Screen opens when the power is turned on.

Making video recording settings

- **Setting video quality: Press** VIDEO
  This sets the video resolution and frame rate per second.
- **Setting FOV: Press** FOV
  This sets the field of view (FOV).
- **Setting scene type: Press** SCENE
  This sets the camera settings for the recording conditions (scene).

Making audio recording settings

- **Setting low-frequency noise reduction: Press** LO CUT
  The low-cut filter can be set to reduce the sound of wind, vocal pops and other noise.
- **Setting audio quality: Press** AUDIO
  This sets the sampling frequency (kHz) and bit rate.

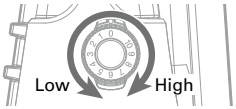
HINT

See the Operation Manual for details about each setting item.

Adjusting the audio recording level

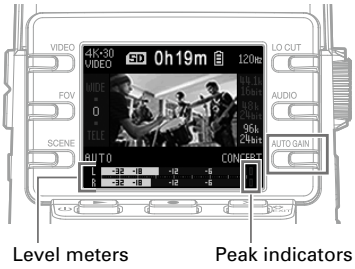
- **Adjusting manually: Turn**

  Adjust so that the level meters are around –12 dB with the loudest sounds.



- **Adjusting automatically: Turn** AUTO GAIN

Setting	Explanation
OFF	This disables automatic level adjustment. Adjust the recording level manually.
CONCERT	Use for recording band performances, concerts and other loud situations.
SOLO	Use for solo performances and other quiet sounds.
MEETING	Use for meetings and field recordings.



HINT

- To clear the peak indicator, press to open the Setting Screen once.
- If a mic or audio device is connected to the external input jack, the **Q2n-4K** can capture that audio and record it with video.
- If a mic that uses plug-in power is connected, use the Setting Screen to set "Plug-in Power" to "On".

Recording video

1. Press .
2. Press again to stop video recording.

HINT

When recording for long periods of time with a microSDHC card, recording files will be split after 4 GB.
When using a microSDXC card, recording will continue in one file even if the file size exceeds 4 GB.

NOTE

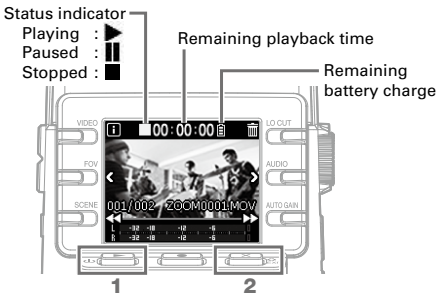
If the internal temperature of the **Q2n-4K** rises during use, a warning message will appear and it will turn off automatically. Wait for the temperature to decrease before using it again.

Playing recordings

Playing back videos

1. Press ⏻ (►) on the Recording Screen. The recorded file will start playing.

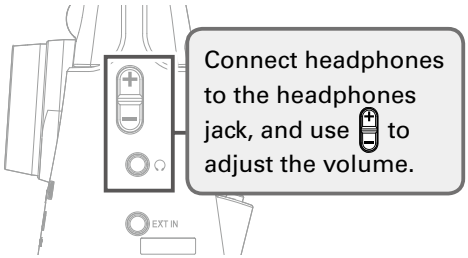
2. Press (✕) EXIT to stop playback and re-open the Recording Screen.



Playback operations

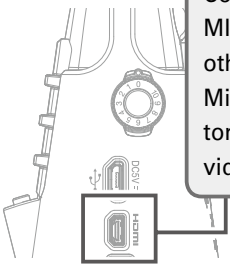
Function	Operation
Pause/resume	Press ⏻ (►)
Search forward	Press and hold ▶▶
Search backward	Press and hold ◀◀
Move to next file	Press ›
Move to previous order	Press ‹
Check file information	Press ⓘ
Delete file	① Open Deletion Screen: Press 🗑 ② Select file: Press ☑ ③ Delete file: Press 🗑 Cancel: Press (✕) EXIT

Using headphones



Connect headphones to the headphones jack, and use + to adjust the volume.

Watching on an HDMI-compatible TV



Connect an HDMI-compatible TV or other device to the Micro HDMI connector, which will output video and audio.

Setting item list

From the Recording Screen, press [X] EXIT to open the Setting Screen where you can use the following functions and settings.

Page 1

Item	Explanation
NTSC/PAL	This sets the standard recording frame rate used according to the regional video format. [NTSC (30 FPS)/PAL (25 FPS)]
Beep	Set the volume of the sound made when turned on or operated. [/ /]
Play Mode	Set whether files are played continuously or playback stops after one file. [Play One/Play All]
Plug-in Power	Set when using a mic that supports plug-in power. [On/Off]
SD Format	Format an SD card.

Page 2

Item	Explanation
WEBCAM	Use as a web camera.
CARD READER	Use as a card reader when connected to a computer.
CARD READER for iOS	Use as a card reader when connected to an iOS device.
USB MIC	Use as a USB mic when connected to a computer.
USB MIC for iOS	Use as a USB mic when connected to an iOS device.

Page 3

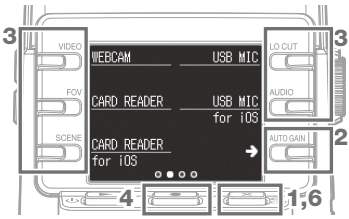
Item	Explanation
Date/time	Set the date and time. [Year, Month, Day, Hour and Min]

Page 4

Item	Explanation
Battery Type	This sets the type of batteries used. [Alkaline/Ni-MH/Lithium]
Power Save	Set to dim the display automatically if not used for a certain amount of time. This is disabled during playback. [Off/1 min/3 min/5 min]
Auto Power Off	Set the amount of time until it turns off automatically when not being used. This function is disabled during recording and playback as well as when it is powered through its USB port. [Off/1 min/3 min/5 min]
Language	Set the language shown on the display.
Setting Reset	Restore the recorder to its factory default settings.

Connecting by USB

1. When the Recording Screen is open, press (X) EXIT to open the Setting Screen.



2. Press → to open the USB Connection Setting Screen.
3. Press the button for the function to use.
4. Press (●) on the Confirmation Screen to select "Yes ●".
5. Use a USB cable to connect a computer or iOS device.
6. To end a USB connection, press (X) EXIT on any function screen.

Specifications

Image sensor		1/2.3" 16 M-pixel CMOS sensor
Lens		F 2.8, 150° FOV
Video format		MPEG-4 AVC/H.264 (MOV)
Video resolutions		4K: 30 p, 25 p, 24 p 1080: 60 p, 50 p, 30 p, 25 p, 24 p 720: 30 p, 25 p
Audio formats		WAV: 96 kHz/24-bit, 48 kHz/24-bit, 44.1 kHz/16-bit
Audio functions		• LO CUT: OFF, 80 Hz, 120 Hz, 160 Hz • AUTO GAIN: OFF, CONCERT, SOLO, MEETING • DELAY: 0.0 F, 0.5 F–10.0 F (only during WEBCAM use) • DIRECT MONITOR: ON, OFF (only during USB MIC use)
Image functions		• FOV: WIDE • 0 • TELE (5 steps) • SCENE: AUTO, OUTDOOR, SUNSET, NIGHT, CONCERT LIGHT, JAZZ CLUB, DANCE CLUB, MONOCHROME, SEPIA, FILM, X-PROCESS, FLAT
Display		1.77" full-color LCD (160 × 128)
Audio inputs	Mic	120° fixed XY stereo, 120 dBSPL maximum input sound pressure, -∞ dB – +39 dB input gain
	Line	Input connector: stereo mini jack, –∞ dB – +39 dB input gain 2 kΩ or higher input impedance, plug-in power (2.5 V) supported
Output connectors		Combined headphone/line stereo mini jack, HDMI micro Type D
Built-in speaker		300 mW 8 Ω mono speaker
Recording media		microSD / microSDHC / microSDXC (256 GB maximum)
USB		microUSB **WEBCAM** Class: UVC 1.0 + UAC 1.0, Formats: 720 p WVGA video, 48 kHz/16-bit audio **CARD READER** Class: USB Mass Storage **USB MIC** Class: UAC 1.0, Format: 44.1 kHz/16-bit Note: card reader and USB mic functions support iOS devices
Power		2 AA batteries : alkaline LR6 (1.5 V), nickel metal hydride HR6 (1.2 V) or lithium FR6 (1.5 V) AC adapter (ZOOM AD-17): DC 5 V/1 A Note: USB bus power supported

Estimated continuous video recording time using batteries

Video resolution	Alkaline LR6 (1.5 V)	Ni-MH HR6 (1.2 V)	Lithium FR6 (1.5 V)
720/30 p	2.0 hours	3.0 hours	6.0 hours
1080/30 p	1.2 hours	2.0 hours	4.0 hours
4K/30 p	0.5 hours	1.0 hours	2.0 hours

48 kHz/24-bit audio
•The above values are approximate.
• Continuous battery operation times were determined using in-house testing methods. They will vary greatly according to use conditions.

External dimensions	Main unit (maximum dimensions): 58.7 mm (D) × 68.5 mm (W) × 83.0 mm (H)
Weight (main unit only)	124 g

ZOOM CORPORATION

4-4-3 Kanda-surugadai, Chiyoda-ku, Tokyo 101-0062 Japan

http://www.zoom.co.jp

Z2I-3395-02